


FORM PTO-1449		Atty. Docket No.: M61.12-0345	Appl. No.: 09/812,524
<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> 		First Named Inventor:	
		Brendan J. Frey Technology Center 2000	
		Filing Date March 20, 2001	Group Art: 2644

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
JW	AA	09/999,576	11/15/01	Attias et al.		
	AB					
	AC					
	AD					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AE					
	AF					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JW	AG	A.P. Varga and R.K. Moore, "Hidden Markov Model Decomposition of Speech and Noise," in Proceedings of the International Conference on Acoustics, Speech and Signal Processing, IEEE Press., pp. 845-848 (1990).
JW	AH	S. Boll, "Suppression of Acoustic Noise in Speech Using Spectral Subtraction," IEEE Transactions on Acoustics, Speech and Signal Processing, Vol. 27, pp. 114-120 (1979).
JW	AI	L. Deng, A. Acero, M. Plumpe & X.D. Huang, "Large-Vocabulary Speech Recognition Under Adverse Acoustic Environments," in Proceedings of the International Conference on Spoken Language Processing, pp. 806-809 (October 2000).
JW	AJ	A. Acero, L. Deng, T. Kristjansson and J. Zhang, "HMM Adaptation Using Vector Taylor Series for Noisy Speech Recognition," in Proceedings of the International Conference on Spoken Language Processing, pp. 869-872 (October 2000).
JW	AK	Y. Ephraim, "Statistical-Model-Based Speech Enhancement Systems," Proc. IEEE, 80(10):1526-1555 (1992).
JW	AL	M.S. Brandstein, "On the Use of Explicit Speech Modeling in Microphone Array Application," In Proc. ICASSP, pp. 3613-3616 (1998).

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DATE CONSIDERED:

3/23/04

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	Brendan J. Frey et al. Technology Center 2800	
	Filing Date	Group Art:
	March 20, 2001	2644

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
BA						
BB						
BC						
BD						

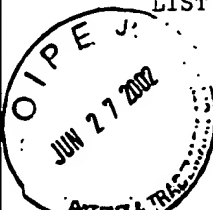
FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
BE						
BF						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JW	BG	A. Dembo and O. Zeitouni, "Maximum A Posteriori Estimation of Time-Varying ARMA Processes from Noisy Observations," IEEE Trans. Acoustics, Speech and Signal Processing, 36(4): 471-476 (1988).
JW	BH	P. Moreno, "Speech Recognition in Noisy Environments," Carnegie Mellon University, Pittsburgh, PA, pp. 1-130 (1996).
JW	BI	B. Frey, "Variational Inference and Learning in Graphical Models," University of Illinois at Urbana, 6 pages (undated).
JW	BJ	Y. Ephraim and R. Gray, "A Unified Approach for Encoding Clean and Noisy Sources by Means of Waveform and Autoregressive Model Vector Quantization," IEEE Transactions on Information Theory, Vol. 34, No. 4, pp. 826-834 (July 1988).
JW	BK	R. Neal and G. Hinton, "A View of the EM Algorithm that Justifies Incremental, Sparse, and Other Variants," pp. 1-14 (undated).
JW	BL	J. Lim and A. Oppenheim, "All-Pole Modeling of Degraded Speech," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-26, No. 3, pp. 197-210 (June 1978).

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CA						
CB						
CC						
CD						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CE						
CF						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JW	CG	Y. Ephraim, "A Bayesian Estimation Approach for Speech Enhancement Using Hidden Markov Models," IEEE Transactions on Signal Processing, Vol. 40, No. 4, pp. 725-735 (April 1992).
JW	CH	"Noise Reduction" downloaded from http://www.ind.rwth-aachen.de/research/noise_reduction.html , pp. 1-11 (10/3/01).
JW	CI	A. Acero, "Acoustical and Environmental Robustness in Automatic Speech Recognition," Department of Electrical and Computer Engineering, pp. 1-141 (September 13, 1990).
JW	CJ	B. Frey et al., "ALGONQUIN: Iterating Laplace's Method to Remove Multiple Types of Acoustic Distortion for Robust Speech Recognition," In Proceedings of Eurospeech, 4 pages (2001).
	CK	
	CL	
	CM	

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